

## IN THE CLAIMS

1.- 6. (Canceled)

7. (currently amended) A method wherein an account issuer authenticates, for the benefit of a third party, that a customer using an account during an online transaction with said third party is the actual owner of said account, said third party desiring verification as to the identity of said customer before proceeding with said online transaction with said customer, said method comprising:

verifying, by said issuer during a registration process, the identity of said customer as the owner of said account and associating a designated password with said account;

**receiving an authentication request message at an access control server operated by said issuer from said third party during said online transaction, said message requesting verification of the identity of said customer;**

requesting over a network, by said issuer from said customer during said online transaction, of an identity-authenticating password;

verifying, by said issuer, that said identity-authenticating password from said customer matches said password previously designated for said account; and

notifying said third party over said network during said online transaction, by said issuer, that said customer is the actual owner of said account when said identity-authenticating password entered by said customer matches the password that was previously designated for said account, whereby said issuer authenticates said customer for said third party during said online transaction.

8. (previously presented) A method as recited in claim 7 wherein said issuer is an issuer financial institution and said third party is an online merchant, whereby said online merchant conducts an online financial transaction with said customer, and wherein said account of said customer is maintained by said issuer financial institution.

9. (currently amended) A method as recited in claim 7 further comprising:

querying an access control server to determine if an account of said customer is enrolled in ~~an a-payment~~ authentication service **before said step of receiving**.

10. (previously presented) A method as recited in claim 9 wherein the access control server determines if said customer account is enrolled by verifying that said customer account is contained in a database of enrolled customer accounts.

11. (previously presented) A method as recited in claim 9 further comprising:  
querying a directory server to verify that said customer account is associated with an issuer financial institution that is participating in said payment authentication service, whereby said customer account is not enrolled with said payment authentication service if said customer account is not associated with an issuer financial institution.

12. (previously presented) A method as recited in claim 11 further comprising:  
sending to said third party's computer system an Internet address for said access control server, said Internet address passing through said directory server before reaching said third party's computer system, whereby said Internet address for said access control server allows said third party to directly communicate with said access control server.

13. (previously presented) A method as recited in claim 9 further comprising:  
reviewing a memory device controlled by said third party to verify that said customer account is associated with an issuer financial institution participating in said payment authentication service, whereby said customer account is not enrolled with said payment authentication service if said customer account is not associated with an issuer financial institution.

14. (currently amended) A method as recited in claim 7 further comprising:  
generating, by said issuer, a digitally-signed transaction receipt using a signature key of said **issuer** ~~trusted party~~; and  
sending, by said issuer, said digitally-signed transaction receipt to said third party, whereby said digitally-signed transaction receipt confirms to said third party that the identity of

said customer has been authenticated.

15. (previously presented) A method as recited in claim 14 wherein said transaction receipt includes a number associated with said customer account, a transaction payment amount, and a transaction payment date.

16. (previously presented) A method as recited in claim 7 further comprising:  
sending, by said issuer, of a card authentication verification value to said third party, the card authentication verification value containing a unique value for said customer account and a specific payment transaction, whereby said card authentication verification value uniquely identifies a specific authenticated payment transaction.

17. (previously presented) A method as recited in claim 14 further comprising:  
verifying, by said third party, said digitally signed transaction receipt such that said third party is assured that said transaction receipt was sent from a specific issuer.

18. (previously presented) A method as recited in claim 7 further comprising:  
sending, by said third party, of an authorization message to an issuer financial institution to verify said customer account has adequate credit for a requested purchase.

19. (currently amended) A method as recited in claim 7 wherein ~~said customer enrolls in said payment authentication service in said registration process~~, said first step of verifying further comprising:

receiving, by said issuer ~~trusted party~~, of enrollment information entered at an enrollment Internet web site by said customer;

verifying, by said issuer ~~trusted party~~, that said enrollment information substantially matches information contained within a pre-existing database of customer information; and

storing said customer account information in a database for enrolled customer accounts.

20. (currently amended) A method performed by ~~an a-payment~~ authentication service wherein an account issuer authenticates, for the benefit of a third party, that a customer using an account during an online transaction with said third party is the actual owner of said account, said method comprising:

verifying, by said issuer during a registration process, the identity of said customer as the owner of said account and associating a designated password with said account;

sending an authentication request message via a customer computer from a third-party software module over a network during said online transaction;

receiving said authentication request message at an access control server that is operated by said issuer;

requesting over said network, by said issuer, of a password from said customer;

verifying, by said issuer, that said password entered by said customer matches said password previously designated for said account; and

sending over said network, by said issuer, an authentication response message to a third-party software module, said authentication ~~payment~~ response message containing an authentication status indicator, whereby said issuer authenticates said customer for said third party.

21. (currently amended) A method performed by a customer computer used with an ~~a-payment~~ authentication service wherein an issuer financial institution authenticates, for the benefit of a third party, that a customer using an account during an online transaction with said third party is the actual owner of said account, said method comprising:

sending enrollment information to an enrollment web site by said customer during a registration process so that said issuer verifies the identity of said customer as the owner of said account;

supplying a password to be designated for said account during said registration process;

receiving an authentication request message from said third party during said online transaction that requests the initiation of an ~~a-payment~~ authentication service wherein the identity of said customer will be authenticated;

sending said authentication request message to an access control server operated by said issuer financial institution, said customer having an account with said issuer financial institution;

receiving a request from said access control server for said customer to enter a password used to verify the identity of said customer during said online transaction;

supplying said password used to verify identity; and

facilitating the sending of an authentication response message from said access control server to said third party via said customer computer regarding the verification of the identity of said customer, whereby said access control server verifies the identity of said customer for said third party.

22. - 31. (Canceled)

32. (currently amended) A method performed by ~~an a-payment~~ authentication service wherein an account issuer authenticates a customer for the benefit of a third party, said method comprising:

verifying, by said issuer during a registration process, the identity of said customer as the owner of said account and associating a designated password with said account;

receiving a request over a network from a customer computer to perform an online a financial transaction with said third party;

determining that said customer is enrolled in said payment authentication service;

sending an authentication request message from said third party via said customer computer over a network during said financial transaction, said authentication request message destined for a computer of said issuer;

receiving an authentication response message from said computer of said issuer via said customer computer during said financial transaction, said authentication response message indicating the authenticity of said customer, said authenticity being based upon a password supplied by said customer to said computer of said issuer during said financial transaction and upon said password previously designated for said account, whereby said issuer authenticates said customer for said third party.

33. (previously presented) A method as recited in claim 7 wherein said online transaction is a payment transaction.

34. (previously presented) A method as recited in claim 20 wherein said online transaction is a payment transaction.

35. (previously presented) A method as recited in claim 21 wherein said online transaction is a payment transaction.

36. (previously presented) A method as recited in claim 32 wherein said financial transaction is a payment transaction.

37. (currently amended) A method as recited in claim 20 wherein said **payment** authentication service uses a centralized architecture, and wherein said third-party software module sends said authentication request message to said access control server by way of a browser in said customer computer.

38. (currently amended) A method as recited in claim 20 wherein said **payment** authentication service uses a distributed architecture, wherein said third-party software module sends said authentication request message to a software module of said customer computer and wherein said customer computer then sends said authentication request message to said access control server.

39. (currently amended) A method as recited in claim 32 wherein said **payment** authentication service uses a centralized architecture, and wherein said third party sends said authentication request message to said issuer computer by way of a browser in said customer computer.

40. (currently amended) A method as recited in claim 32 wherein said **payment** authentication service uses a distributed architecture, wherein said third party sends said authentication request message to a software module of said customer computer and wherein said customer computer then sends said authentication request message to said issuer computer.

**Please add the following new claims:**

41. (New) A method as recited in claim 7 further comprising:

routing said authentication request message from said third party to said issuer via an Internet browser of a computer of said customer; and

routing said notifying from said issuer to said third party via said Internet browser of said computer of said customer.

42. (New) A method as recited in claim 7 further comprising:

accessing a web site of said third party by said customer using an Internet browser of a computer;

redirecting said Internet browser of said computer from said web site to an access control server of said issuer, whereby said issuer receives said identity-authenticating password; and

redirecting said Internet browser of said computer from said access control server back to said web site of said third party.

43. (New) A method as recited in claim 7 further comprising:

performing said step of requesting without the use of any additional software on a computer of said customer relating to said method of authenticating.



44. (New) A method wherein an account issuer authenticates, for the benefit of a third party, that a customer using an account during an online transaction with said third party is the actual owner of said account, said third party desiring verification as to the identity of said customer before proceeding with said online transaction with said customer, said method comprising:

receiving, at an access control server under control of said issuer, authentication information concerning said customer during a registration process;

verifying, by said issuer during said registration process, the identity of said customer as the owner of said account and associating a designated password with said account;

receiving an authentication request message at an access control server operated by said issuer from said third party during said online transaction, said message requesting verification of the identity of said customer;

requesting over a network, by said issuer from said customer during said online transaction, of an identity-authenticating password;

verifying, by said issuer, that said identity-authenticating password from said customer matches said password previously designated for said account; and

notifying said third party over said network during said online transaction, by said issuer, that said customer is the actual owner of said account when said identity-authenticating password entered by said customer matches the password that was previously designated for said account, whereby said issuer authenticates said customer for said third party during said online transaction.

45. (New) A method as recited in claim 44 wherein said access control server receives said customer authentication information and said designated password from said issuer during said registration process, whereby said customer need not go through a formal registration process.

46. (New) A method as recited in claim 44 wherein said access control server receives said customer authentication information and said designated password from said customer during said registration process, whereby said registration process is a formal registration process.